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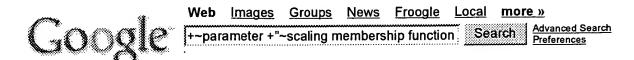Google Home - Advertising Programs - Business Solutions - About Google

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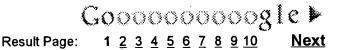presence of medial **axes** that can approach all the way through the GM to the ...
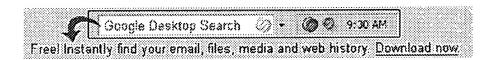iacl.ece.jhu.edu/~xhan/papers/SPIE2002.pdf - Similar pages

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1 A survey of extensions to APL

Karl Fritz Ruehr

July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 13 Issue 1

Full text available: 📄 pdf(3.57 MB)   Additional Information: full citation, abstract, references, citings, index terms

A survey of proposed extensions to the APL language is made with emphasis placed on the motivations for various proposals, the differences between them and the consequences of their adoption. Some issues of a more general nature concerning the purpose, process and direction of language extension are also discussed. An extensive bibliography is provided with annotations concerning the nature, development and influence of various authors' works. Areas of extension encompassed by the survey in ...

2 Visualization: Analysis of visualisation requirements for fuzzy systems

Binh Pham, Ross Brown

February 2003 **Proceedings of the 1st international conference on Computer graphics and interactive techniques in Australasia and South East Asia**

Full text available: 📄 pdf(304.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper provides a comprehensive analysis of the working and requirements of fuzzy systems with the view to devise appropriate visualisation framework and techniques for these systems using a user- and task-oriented approach. We firstly discuss the nature of fuzzy data and the essential components of typical fuzzy systems, then categorise different visualisation requirements from three perspectives: user of fuzzy systems, designer of fuzzy systems and designer of visualisation systems. The vi ...

Keywords: fuzzy data, fuzzy rules, fuzzy systems, visualisation techniques

3 Biological applications: A co-evolutionary hybrid algorithm for multi-objective optimization of gene regulatory network models

Praveen Koduru, Sanjoy Das, Stephen Welch, Judith L. Roe, Zenaida P. Lopez-Dee

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Full text available: 📄 pdf(286.37 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, the parameters of a genetic network for rice flowering time control have been estimated using a multi-objective genetic algorithm approach. We have modified the recently introduced concept of fuzzy dominance to hybridize the well-known Nelder Mead Simplex

algorithm for better exploitation with a multi-objective genetic algorithm. A co-evolutionary approach is proposed to adapt the fuzzy dominance parameters. Additional changes to the previous approach have also been incorporated h ...

Keywords: genomics, hybrid, multi-objective, simplex

4 Machine interpretation of CAD data for manufacturing applications

Qiang Ji, Michael M. Marefat
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available: pdf(1.90 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

5 Application of fuzzy logic to approximate reasoning using linguistic synthesis

E. H. Mamdani
May 1976 **Proceedings of the sixth international symposium on Multiple-valued logic**

Full text available: pdf(433.69 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes an application of fuzzy logic in designing controllers for industrial plants. A Fuzzy Logic is used to synthesise linguistic control protocol of a skilled operator. The method has been applied to pilot scale plants as well as in a practical industrial situation. The merits of this method in its usefulness to control engineering are discussed. This work also illustrates the potential for using fuzzy logic in modelling and decision making. An avenue for further work in th ...

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Jiying Zhao, Yoshihisa Shimazu, Koji Ohta, Rina Hayasaka, Yutaka Matsushita
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available: 📄 pdf(1.47 MB)   Additional Information: full citation, references, index terms

Keywords: JPEG, adaptive codec, fuzzy reasoning, human visual system, region importance

2   A survey of extensions to APL   ▨
Karl Fritz Ruehr
July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 13 Issue 1

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A survey of proposed extensions to the APL language is made with emphasis placed on the motivations for various proposals, the differences between them and the consequences of their adoption. Some issues of a more general nature concerning the purpose, process and direction of language extension are also discussed. An extensive bibliography is provided with annotations concerning the nature, development and influence of various authors' works. Areas of extension encompassed by the survey in ...

3   Fuzzy signals in control loops   ▨
Rainer Palm
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

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Keywords: Takagi/Sugeno controller, fuzzy control, fuzzy inputs, noisy signals

4   Clustering algorithms: Alternatives to the k-means algorithm that find better clusterings   ▨
Greg Hamerly, Charles Elkan
November 2002 **Proceedings of the eleventh international conference on Information**

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Full text available: 📄 pdf(1.32 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We investigate here the behavior of the standard k-means clustering algorithm and several alternatives to it: the k-harmonic means algorithm due to Zhang and colleagues, fuzzy k-means, Gaussian expectation-maximization, and two new variants of k-harmonic means. Our aim is to find which aspects of these algorithms contribute to finding good clusterings, as opposed to converging to a low-quality local optimum. We describe each algorithm in a unified framework that introduces separate cluster membe ...

Keywords: clustering quality, k-harmonic means, k-means, unsupervised classification

5   Machine interpretation of CAD data for manufacturing applications   ▦
Qiang Ji, Michael M. Marefat
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

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Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

6   A fuzzy sets based linguistic approach: Theory and applications   ▦
Piero P. Bonissone
January 1980 **Proceedings of the 12th conference on Winter simulation**

Full text available: 📄 pdf(720.13 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Fuzzy sets theory and fuzzy logic constitute the basis for the linguistic approach. Under this approach, variables can assume linguistic values. Each linguistic value is characterized by a label and a meaning. The label is a sentence of a language. The meaning is a fuzzy subset of a universe of discourse. Models, based on this approach, can be constructed to simulate approximate reasoning. The implementation of these models presents two major problems, namely how to associate a label to an ...

7   Data mining: Wavelet fuzzy classification for detecting and tracking region outliers in   ▦
meteorological data
Chang-Tien Lu, Lily R. Liang
November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**

Full text available: 📄 pdf(581.72 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, a wavelet fuzzy classification approach is proposed to detect and track region outliers in meteorological data. First wavelet transform is applied to meteorological data to bring up distinct patterns that might be hidden within the original data. Then a powerful image processing technique, edge detection with competitive fuzzy classifier, is extended to identify the boundary of region outlier. After that, to determine the center of the region outlier, the fuzzy-weighted average ...

Keywords: fuzzy classification, outlier detection, spatial data mining

8 Finknn: a fuzzy interval number k-nearest neighbor classifier for prediction of sugar production from populations of samples
Vassilios Petridis, Vassilis G. Kaburlasos
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(360.76 KB)   Additional Information: full citation, abstract, references, index terms

This work introduces *FINkNN*, a k-nearest-neighbor classifier operating over the metric lattice of conventional interval-supported convex fuzzy sets. We show that for problems involving populations of measurements, data can be represented by fuzzy interval numbers (FINs) and we present an algorithm for constructing FINs from such populations. We then present a lattice-theoretic metric distance between FINs with arbitrary-shaped membership functions, which forms the basis for *FINkNN* ...

9 Fuzzy genetic controllers for the autonomous rendezvous and docking problem
Vijayarangan Gopalan, Abdollah Homaifar, M. Reza Salami, R. W. Dabney, Bijan Sayyarrodsari
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(582.45 KB)   Additional Information: full citation, references, index terms

Keywords: docking, fuzzy, genetic algorithm, transportation

10 Image annotation and video summarization: Contrast-based image attention analysis by using fuzzy growing
Yu-Fei Ma, Hong-Jiang Zhang
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(808.71 KB)   Additional Information: full citation, abstract, references, citings, index terms

Visual attention analysis provides an alternative methodology to semantic image understanding in many applications such as adaptive content delivery and region-based image retrieval. In this paper, we propose a feasible and fast approach to attention area detection in images based on contrast analysis. The main contributions are threefold: 1) a new saliency map generation method based on local contrast analysis is proposed; 2) by simulating human perception, a fuzzy growing method is used to ext ...

Keywords: attention detection, contrast analysis, fuzzy growing, image analysis, visual attention model

11 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

12 Image I: Retrieval of 3D objects by visual similarity

Jürgen Assfalg, Alberto Del Bimbo, Pietro Pala
October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: pdf(166.89 KB)   Additional Information: full citation, abstract, references, index terms

Along with images and videos, 3D models have recently gained increasing attention for a number of reasons: advancements in 3D hardware and software technologies, their ever decreasing prices and increasing availability, affordable 3D authoring tools, and the establishment of open standards for 3D data interchange. The ever increasing availability of 3D models demands for tools supporting their effective and efficient management. Among these tools, those enabling content-based retrieval play a ...

Keywords: 3D models, content-based retrieval, spin images

13 A framework for modeling and evaluating automatic semantic reconciliation

Avigdor Gal, Ateret Anaby-Tavor, Alberto Trombetta, Danilo Montesi
March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 14 Issue 1

Full text available: pdf(472.75 KB)   Additional Information: full citation, abstract

The introduction of the Semantic Web vision and the shift toward machine understandable Web resources has unearthed the importance of automatic semantic reconciliation. Consequently, new tools for automating the process were proposed. In this work we present a formal model of semantic reconciliation and analyze in a systematic manner the properties of the process outcome, primarily the inherent uncertainty of the matching process and how it reflects on the resulting mappings. An important featur ...

Keywords: Mapping, Ontology versioning, Semantic interoperability

14 Multidimensional defuzzification—fast algorithms for the determination of crisp characteristic subsets

T. A. Runkler, M. Glesner
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(482.61 KB)   Additional Information: full citation, references, index terms

Keywords: &gra;-cuts, defuzzification, fuzzy reasoning, operators, subsets

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☐ 51. **An area-efficient full-wave current rectifier for analog array processing**
Poikonen, J.; Paasio, A.;
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Faa-Jeng Lin; Rong-Jong Wai; Sheng-Long Wang;
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Volume 45, Issue 6, Dec. 1998 Page(s):928 - 937
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<u>AbstractPlus</u> | <u>References</u> | Full Text: <u>PDF</u>(284 KB) **IEEE JNL**

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Shih-Tin Lin; Ang-Kiong Huang;
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Emami, M.R.; Turksen, I.B.; Goldenberg, A.A.;
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Image Processing, IEEE Transactions on
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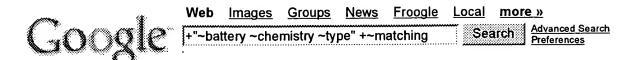AbstractPlus | References | Full Text: PDF(280 KB)   IEEE JNL

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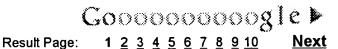File Format: PDF/Adobe Acrobat - View as HTML
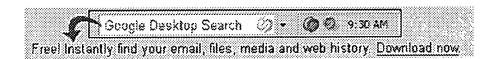to use band-pass filter **type matching** networks and to allow. insertion losses.
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